## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/000475

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> H05K3/00, H05K1/02, B65H29/64, B65H41/00					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum de	ocumentation searched (classification system followed	by classification symbols)			
Int.	Cl' H05K3/00, H05K1/02, B65H29	0/64, B65H41/UU			
	ion searched other than minimum documentation to the				
Jitsuyo Shinan Koho					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT  Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Х	JP 2001-351950 A (Toray Indu		. 1–3		
Y	21 December, 2001 (21.12.01),		4-21		
	Column 9, line 23 to column 1 (Family: none)	10, line 29			
	(Idmiliy. None)	•			
Y	JP 5-147819 A (Ibiden Co., L	td.),	4-21		
	15 June, 1993 (15.06.93), Column 4, line 31 to column 5	i line 12. golumn 6			
	lines 33 to 45; Fig. 3	o, line 12, column o,			
	(Family: none)				
l	TD 0000 100000 7 /0hama		0		
Y	JP 2002-128388 A (Sharp Corp 09 May, 2002 (09.05.02),	- ) ,	. 8		
	Column 19, lines 31 to 43		•		
	(Family: none)				
[♥] Budh	er documents are listed in the continuation of Box C.	See patent family annex.			
	categories of cited documents: ent defining the general state of the art which is not	"T" later document published after the inte priority date and not in conflict with the			
date		considered novel or cannot be conside	red to involve an inventive		
cited to	ent which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other	step when the document is taken alone "Y" document of particular relevance; the	claimed invention cannot be		
	reason (as specified) ant referring to an oral disclosure, use, exhibition or other	considered to involve an inventive step combined with one or more other such			
means combination being obvious to a person skilled in the art					
than the priority date claimed					
Date of the actual completion of the international search  19 February, 2004 (19.02.04)  Date of mailing of the international search report  09 March, 2004 (09.03.04)					
. 19 6	EDICALLY, 2007 (15.02.04)	09 march, 2004 (05.	.03.04/		
Name and mailing address of the ISA/		Authorized officer			
Japanese Patent Office					
Facsimile No.		Telephone No.	,		

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	<u> </u>		2004/0004/3
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant p	assages	Relevant to claim No.
Y	JP 2002-282832 A (Ricoh Co., Ltd.), 02 October, 2002 (02.10.02), Column 8, line 13 to 34 (Family: none)		10,15,16
<b>Y</b>	JP 62-56245 A (Somar Corp.), 11 March, 1987 (11.03.87), Page 2, lower right column, line 16 to page upper right column, line 14; page 4, lower column, lines 8 to 9 (Family: none)		11,19
Y	Microfilm of the specification and drawings to the request of Japanese Utility Model Appl No. 8855/1975(Laid-open No. 90837/1976) (Fuji Photo Film Co., Ltd.), 21 July, 1976 (21.07.76), Page 3, lines 10 to 13; page 5, line 19 to line 1 (Family: none)	ication	13,20
Y	JP 9-194128 A (Matsushita Electric Industri Co., Ltd.), 29 July, 1997 (29.07.97), Column 4, lines 24 to 28 (Family: none)	iál	17
Y	JP 2001-89018 A (Hitachi Techno Engineering Ltd.), Column 4, lines 9 to 19 (Family: none)	g Co.,	18
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